

SWP Weekly Water Quality Summary

January 5 to January 13, 2010

Electrical Conductivity: Concentrations decreased at Check 41 and Barker Slough. At Harvey O. Banks Pumping Plant (HBP), the average daily EC concentration on January 5 equaled the concentration on January 13, 2010. During this period, concentrations ranged from 362 $\mu\text{S}/\text{cm}$ to 676 $\mu\text{S}/\text{cm}$ (217 mg/L to 406 mg/L), below the Article 19 Monthly Average Objective of 440 mg/L (733 $\mu\text{S}/\text{cm}$). As of January 13, 2010, the lowest concentration of 362 $\mu\text{S}/\text{cm}$ occurred at Barker Slough while the highest concentration of 676 $\mu\text{S}/\text{cm}$ occurred at HBP. The average daily EC concentration at HBP was 676 $\mu\text{S}/\text{cm}$ as of January 13.

Bromide*: Concentrations exceeded the California Bay Delta Authority (CBDA) Objective of 0.05 mg/L at all locations. Concentrations ranged from 0.14 mg/L to 0.39 mg/L. As of January 13, Barker Slough had the lowest concentration of 0.14 mg/L, while the highest concentration of 0.39 mg/L occurred at HBP. The average daily bromide concentration at HBP was 0.39 mg/L as of January 13.

* Bromide concentrations are calculated values using linear regression equations using EC concentrations and are not as accurate as bromide concentrations from laboratory analysis.

Turbidity: From January 5 to January 13, 2010 turbidity levels decreased at Check 41, but increased at HBP and Barker Slough. Turbidity levels ranged from 1.3 NTU to 39.0 NTU during the week. As of January 13, 2010, the lowest level of 1.3 NTU occurred at Check 41, while the highest level of 39.0 NTU occurred at Barker Slough. As of January 13, turbidity levels at HBP increased from 6.5 NTU to 6.8 NTU.

Dissolved Organic Carbon (DOC): Concentrations increased from 3.1 mg/L to 4.0 mg/L at HBP and from 2.7 mg/L to 2.9 mg/L at Check 13. DOC concentrations decreased from 2.2 to 2.0 mg/L at Edmonston as of January 13.

Taste and Odor Compounds: From January 5 to 11, 2010, MIB and geosmin concentrations in the SWP ranged from non-detect to 11 ng/L at O'Neill Forebay Outlet (Check 13), Check 41, Check 66, and Silverwood Lake.

Ground water pump-ins to the California Aqueduct from January 5 to January 13, 2010 totaled 14,696 AF. The break down of the total volume was:

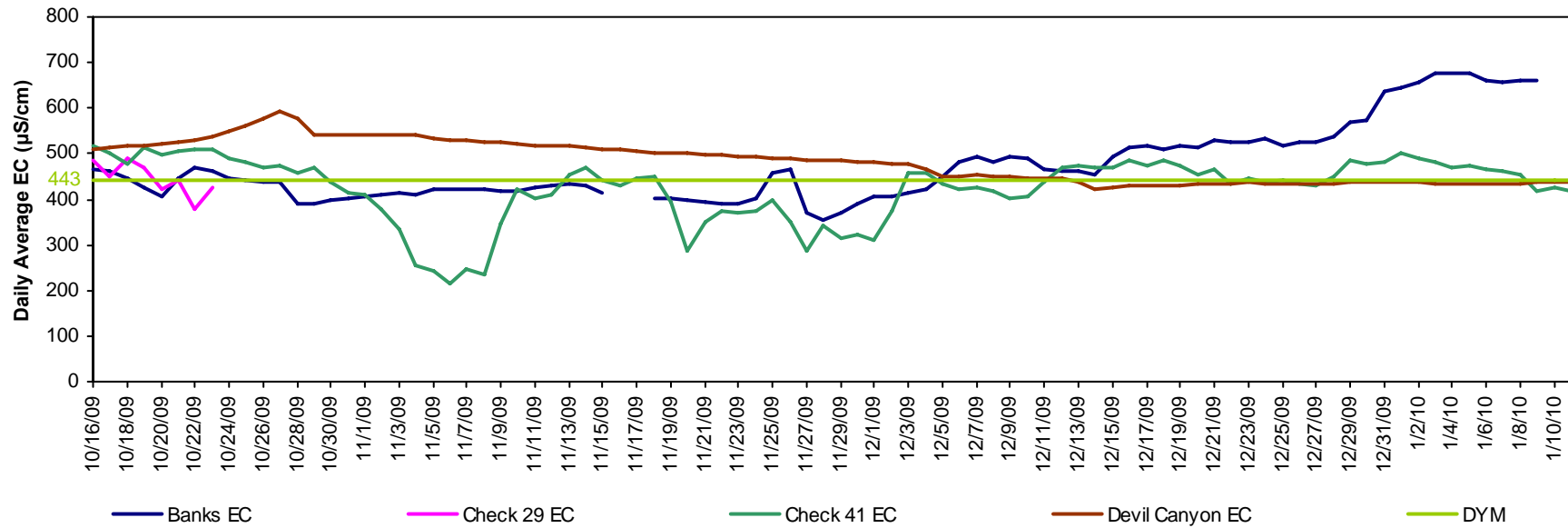
- Arvin Edison Water Storage District = 3,797 AF
- Kern Water Bank Authority (who operate the Kern Water Bank Canal) = 5,775 AF
- Kern County Water Agency (who operate the Cross Valley Canal) = 5,033 AF
- Semitropic (2&3) Water Storage District = 91 AF

As of January 13, 2010, no data were available for Del Valle Check 7 and Vallecitos due to maintenance driven station shut downs, and for Check 29 due to a malfunctioning turbidity instrument and the water quality station upgrades currently underway.

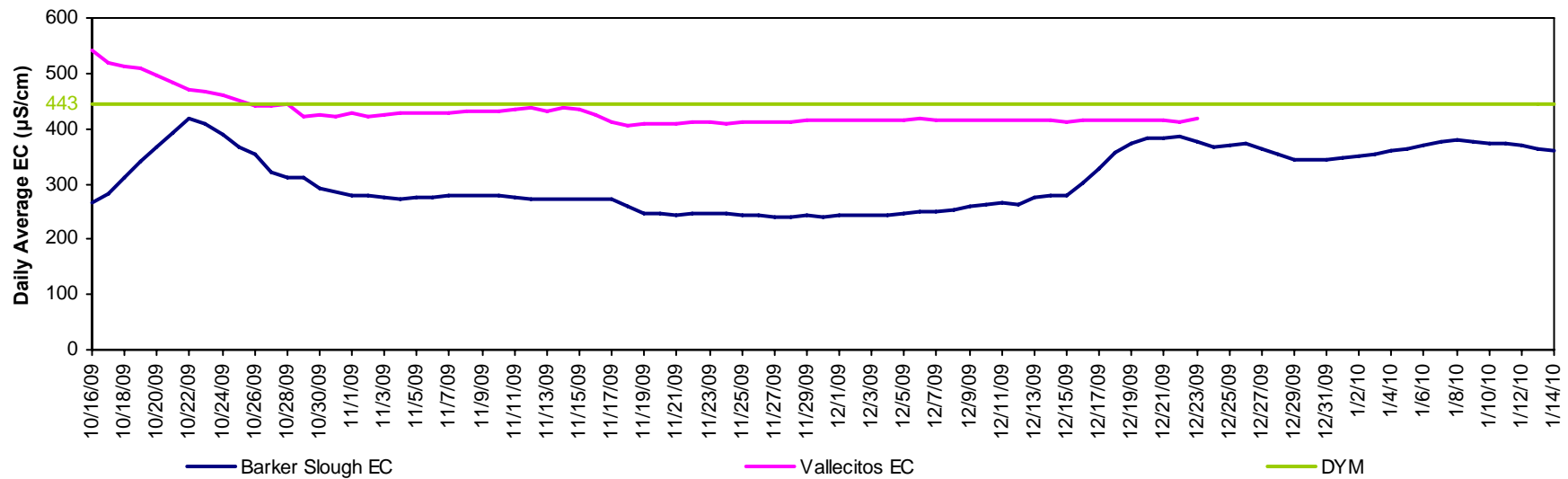
The intent of the weekly water quality (WQ) summary is to acquaint contractors, scientists and interested parties with the status of water quality in the State Water Project (SWP). Your comments, questions and suggestions are welcome and can be directed to Cindy Garcia @ 916-653-7213, or Austine Eke @ 916-653-7227. To view WQ data from the automated stations along the SWP, visit: http://www.water.ca.gov/swp/waterquality/AutostationData/Autostation_map.cfm, and click on a station name on the map to link to the station's data on the California Data Exchange Center (CDEC) website.

To view the Edmondston's daily AF pumping data, visit: www.water.ca.gov. Click on the "State Water Project" tab, and click on the "Operations Control" link. Look under the "Project-Wide Operations" header for the "Dispatcher's Daily Water Report."

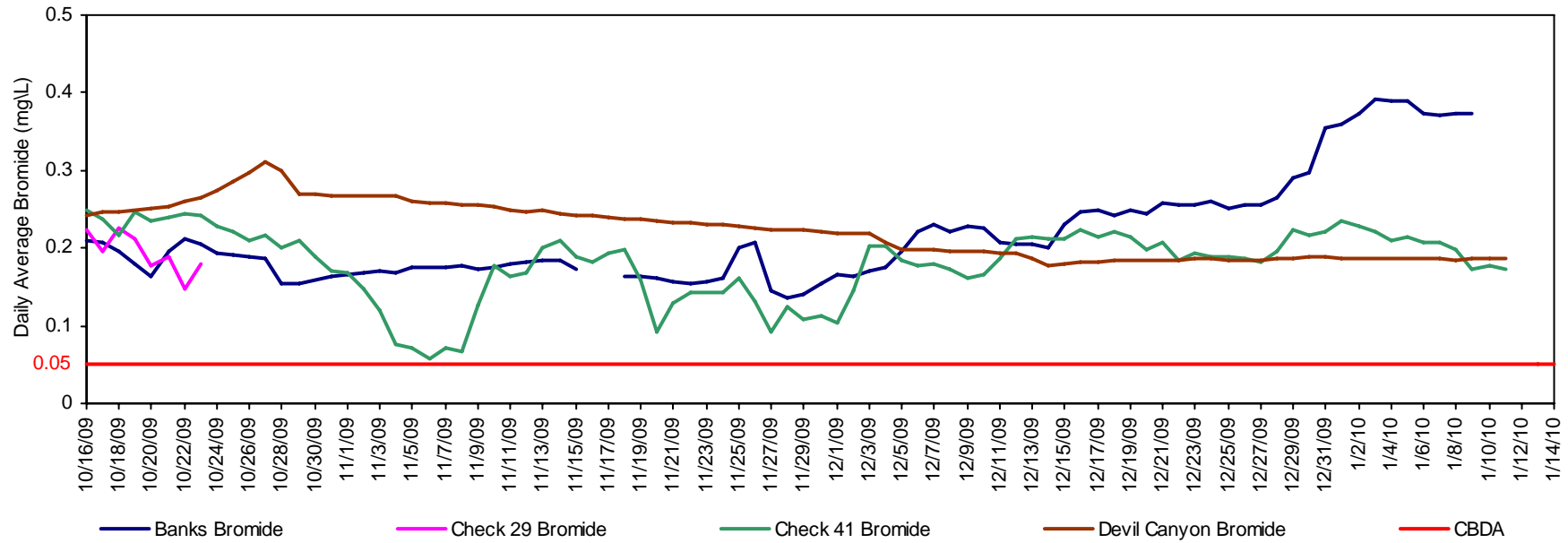
California Aqueduct - Electrical Conductivity



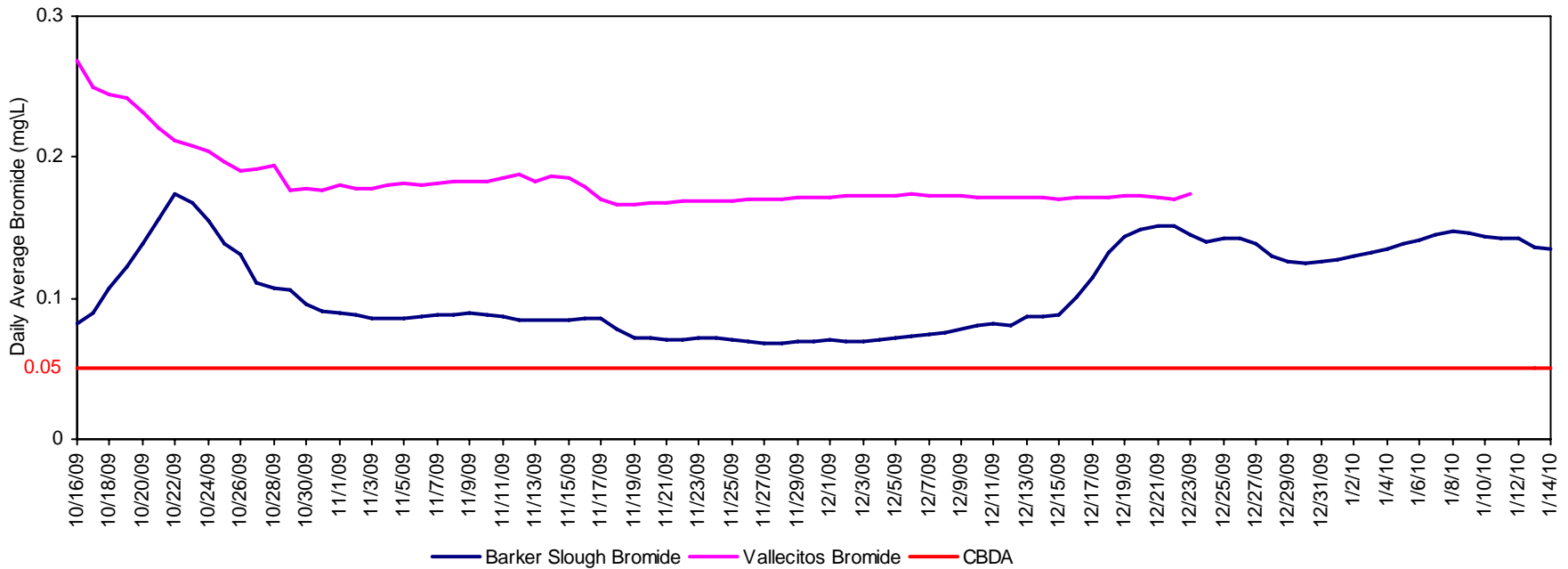
North and South Bay Aqueduct - Electrical Conductivity



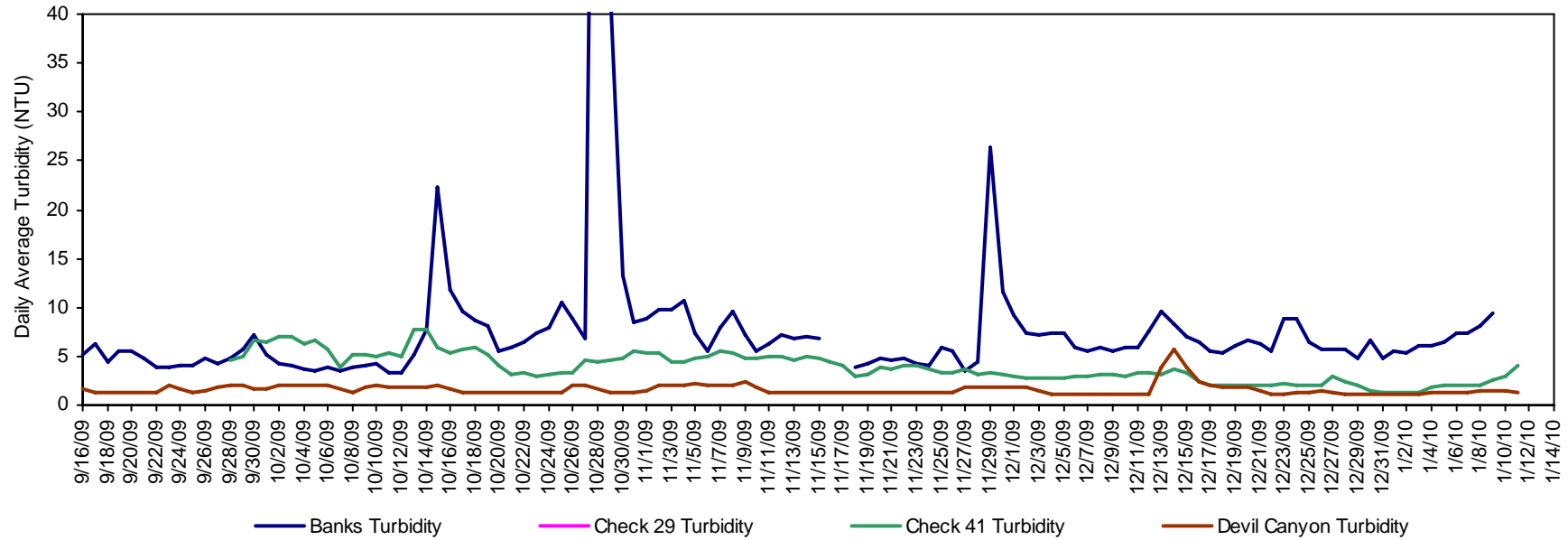
California Aqueduct - Calculated Bromide



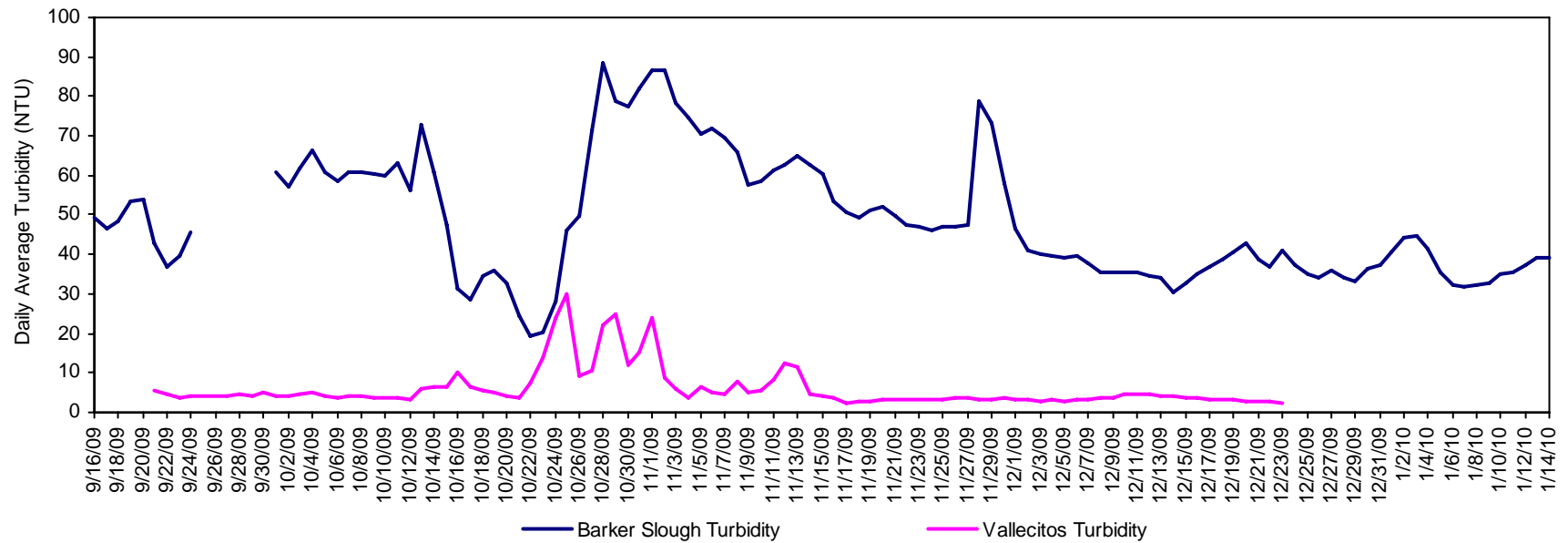
North and South Bay Aqueduct - Calculated Bromide



California Aqueduct - Turbidity



North and South Bay Aqueduct - Turbidity



California Aqueduct Calculated Dissolved Organic Carbon

